

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: LUMARK

Report Number: P971014

Luminaire Tested: **NAV-SB6C-827-U-T1**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P971014
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6C-827-U-T1
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40043.7 lumens
Efficiency: N/A
Efficacy: 133.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G5

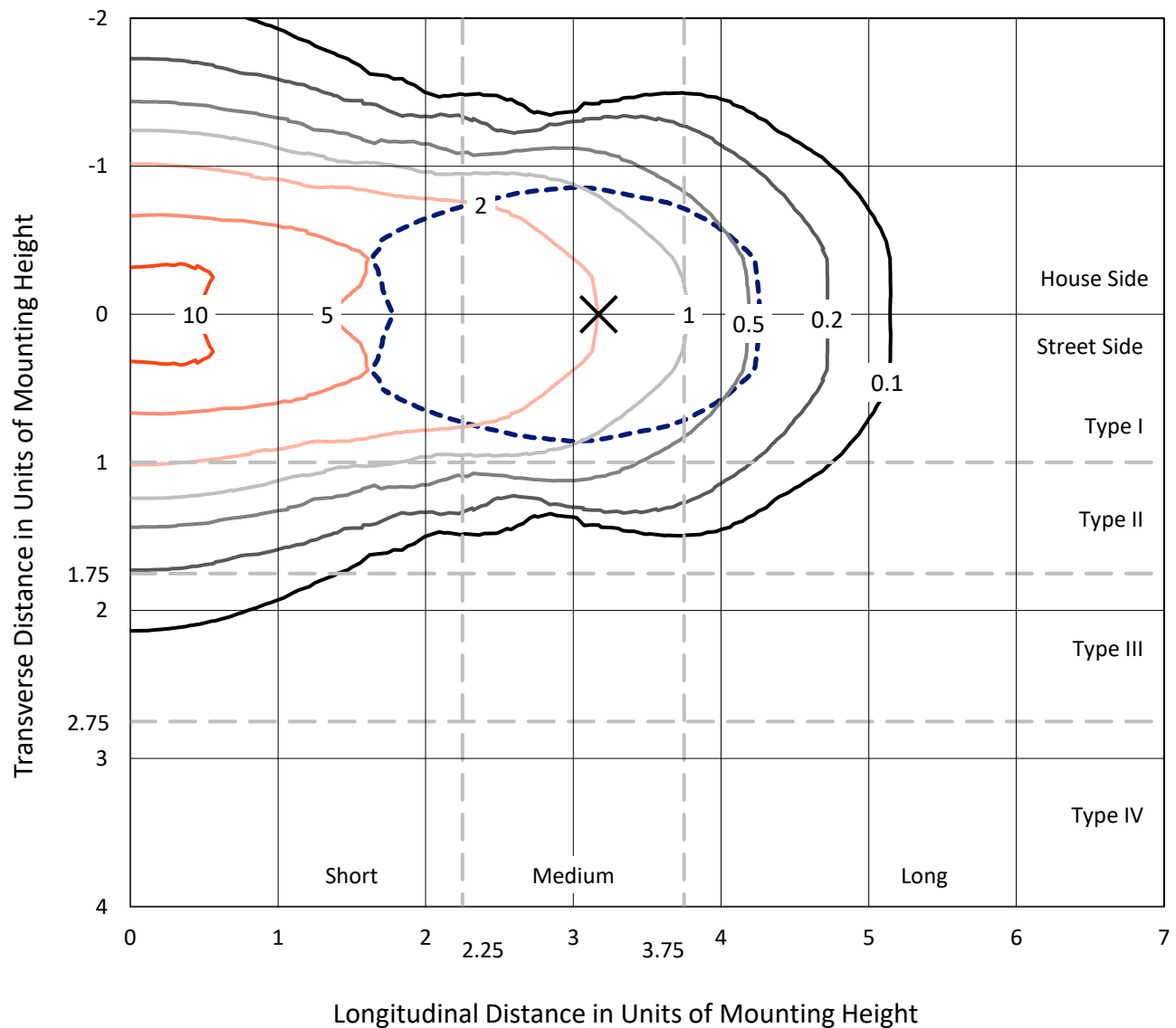
Input Watts (W): 300.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

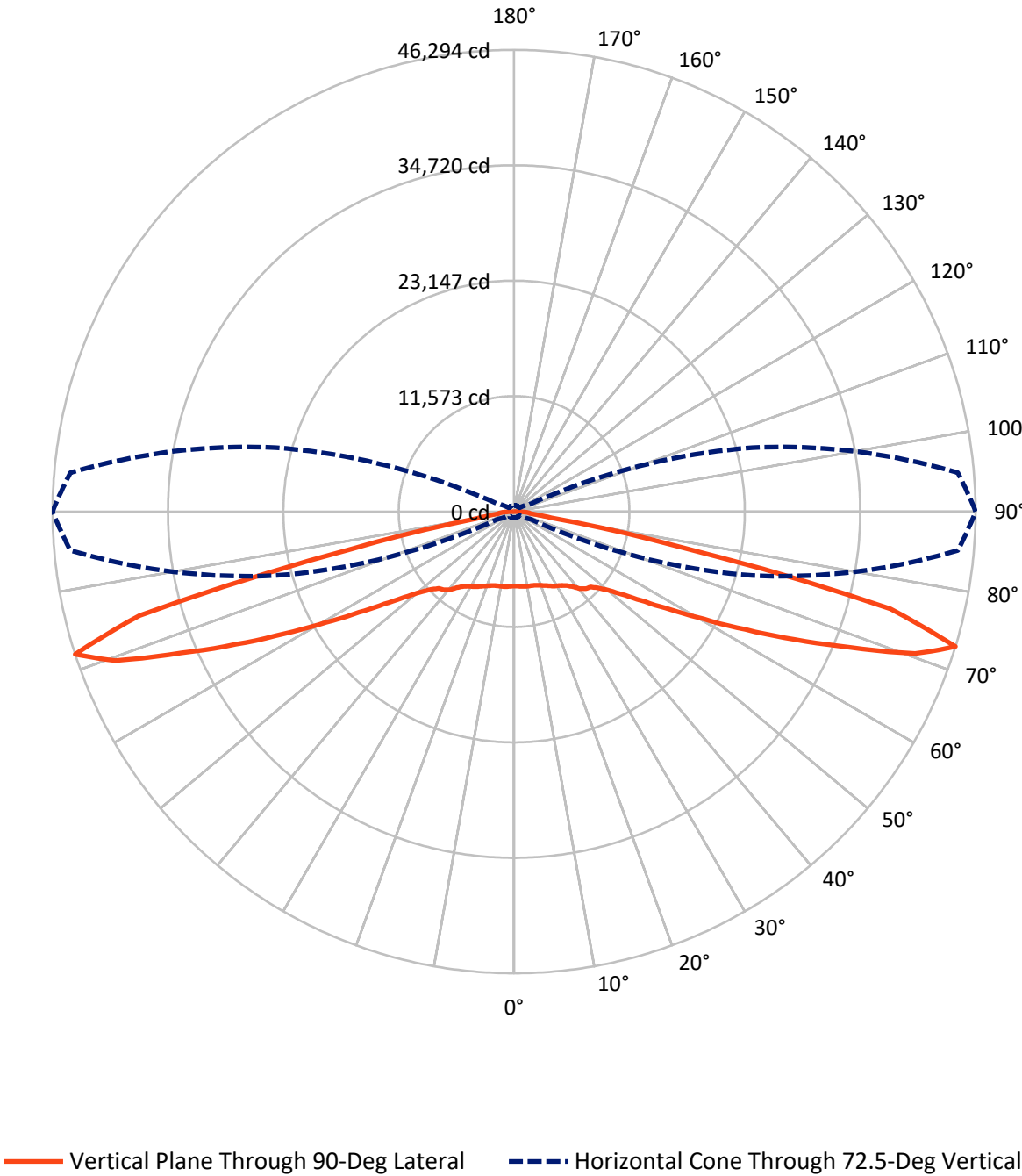
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



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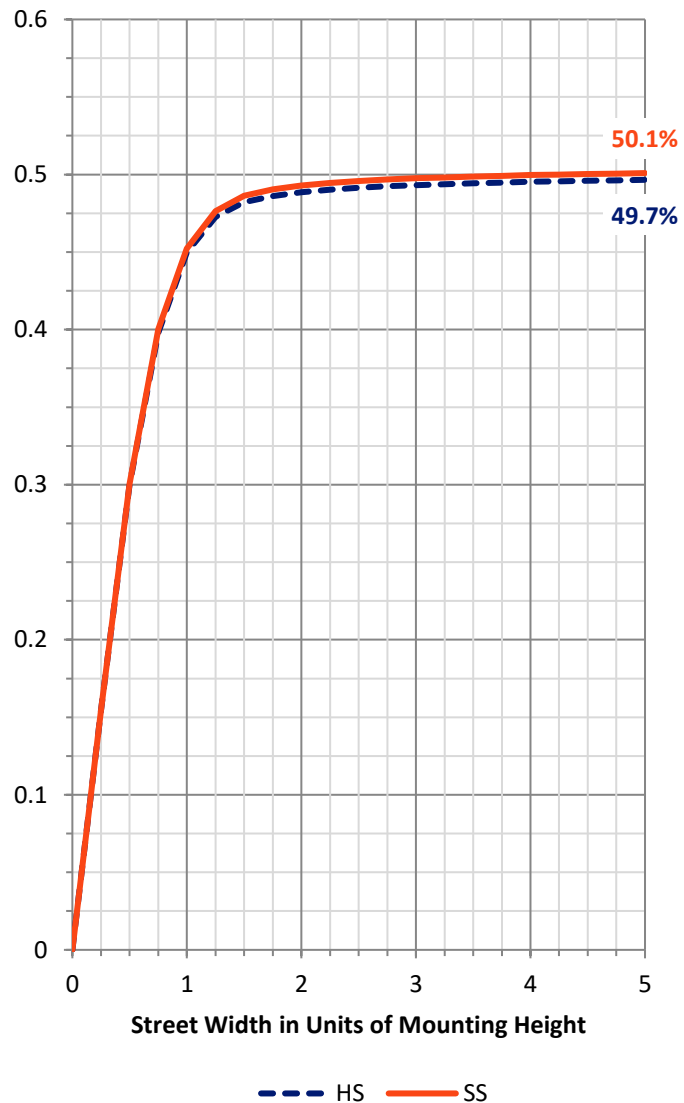
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	20021.8	0.0	20021.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	20021.8	0.0	20021.8
	% Fixture	50.0	0.0	50.0
Total	Lumens	40043.7	0.0	40043.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	725.5	1.8
10°-20°	2218.4	5.5
20°-30°	3698.9	9.2
30°-40°	5087.2	12.7
40°-50°	6212.8	15.5
50°-60°	7185.8	17.9
60°-70°	8567.9	21.4
70°-80°	5979.8	14.9
80°-90°	367.3	0.9
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	40043.7	100.0
0°-180°	40043.7	100.0

Coefficient of Utilization



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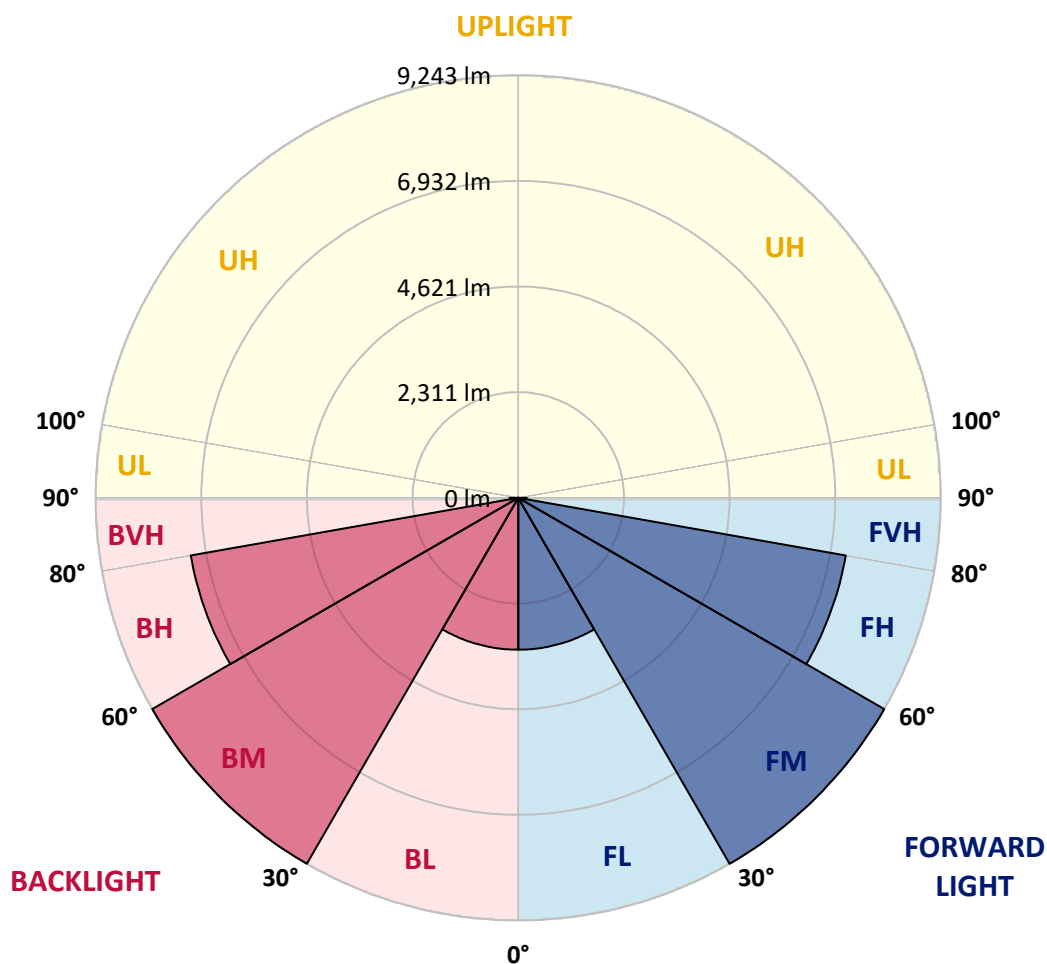
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3321.4	8.3			
FM	(30°-60°)	9242.9	23.1			
FH	(60°-80°)	7273.9	18.2			G3/7500
FVH	(80°-90°)	183.6	0.5			G2/225
BL	(0°-30°)	3321.4	8.3	B4/5000		
BM	(30°-60°)	9242.9	23.1	B5		
BH	(60°-80°)	7273.9	18.2	B5		G5
BVH	(80°-90°)	183.6	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type I Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	7482.6	7482.6	7482.6	7482.6	7482.6	7482.6	7482.6	7482.6	7482.6	7482.6	7482.6
2.5°	7489.0	7497.5	7497.5	7491.1	7506.0	7493.3	7493.3	7486.8	7493.3	7486.8	7486.8
5°	7527.3	7538.0	7542.2	7540.0	7559.2	7548.5	7548.5	7540.0	7542.2	7535.8	7535.8
7.5°	7599.7	7614.5	7623.0	7633.7	7661.4	7648.6	7640.0	7614.5	7603.9	7586.8	7586.8
10°	7623.0	7640.0	7667.7	7723.1	7786.9	7789.1	7763.5	7699.7	7650.7	7612.4	7606.0
12.5°	7550.7	7574.1	7631.5	7744.4	7887.0	7944.4	7904.0	7797.6	7701.7	7633.7	7623.0
15°	7459.1	7484.8	7572.0	7742.2	7952.9	8086.9	8082.7	7942.3	7789.1	7682.6	7665.6
17.5°	7316.6	7342.1	7467.6	7706.1	8004.0	8225.3	8284.9	8140.1	7925.2	7782.6	7759.2
20°	7059.1	7082.4	7257.0	7591.2	8021.0	8372.2	8527.5	8399.8	8131.6	7938.0	7901.8
22.5°	6724.9	6761.1	6965.5	7393.2	7980.5	8525.3	8804.1	8716.9	8372.2	8104.0	8055.1
25°	6367.4	6405.7	6644.0	7150.6	7876.3	8636.0	9131.9	9076.6	8644.5	8310.4	8242.3
27.5°	6058.9	6099.3	6358.9	6910.1	7714.6	8678.6	9455.4	9483.1	8974.4	8538.1	8465.8
30°	5816.3	5854.6	6131.2	6716.4	7506.0	8636.0	9738.4	9930.0	9310.7	8736.1	8631.8
32.5°	5550.2	5599.2	5890.7	6480.3	7259.2	8533.8	9985.2	10413.1	9700.1	8948.9	8816.9
35°	5214.0	5258.7	5565.1	6156.8	6935.7	8370.0	10191.7	10949.4	10257.7	9272.4	9125.5
37.5°	4805.4	4847.9	5152.3	5752.4	6614.3	8140.1	10349.2	11553.7	10921.7	9738.4	9542.6
40°	4394.6	4435.1	4720.2	5301.2	6229.1	7846.5	10404.6	12145.3	11683.6	10379.0	10170.5
42.5°	4018.0	4054.1	4315.9	4856.4	5797.1	7471.9	10332.2	12660.4	12366.7	10825.9	10557.8
45°	3671.0	3703.0	3935.0	4439.3	5348.0	7016.5	10115.1	13213.7	13179.7	11145.1	10783.3
47.5°	3275.2	3307.2	3547.6	4035.0	4899.0	6482.3	9746.9	13758.5	14309.7	11868.7	11451.6
50°	2792.1	2819.8	3066.7	3568.9	4432.9	5914.1	9236.2	14186.3	15735.6	12964.7	12441.1
52.5°	2219.6	2249.5	2489.9	2992.2	3879.6	5303.3	8563.7	14465.0	17382.8	14565.0	13920.2
55°	1651.5	1672.7	1881.3	2332.5	3194.3	4607.5	7720.9	14543.8	19251.2	16752.8	15946.2
57.5°	1198.1	1210.9	1345.0	1681.2	2421.9	3737.0	6697.2	14339.4	21475.2	19557.7	18542.6
60°	970.5	974.7	1015.2	1164.1	1683.4	2753.9	5460.8	13637.2	23888.5	23173.4	21894.4
62.5°	881.1	881.1	891.6	932.1	1138.6	1817.4	3964.7	12181.5	26476.4	27742.5	26029.5
65°	819.4	819.4	823.6	842.8	898.1	1157.7	2502.7	9810.8	28657.7	33094.9	30928.5
67.5°	764.0	766.1	764.0	770.4	802.3	855.6	1451.4	6776.1	29832.4	38640.9	36302.0
70°	706.5	710.8	700.2	700.2	725.7	727.9	908.8	3715.7	28857.7	43288.7	42673.7
72.5°	638.5	644.8	627.8	623.5	642.7	634.2	683.2	1783.4	24776.0	44676.3	46293.7
75°	578.8	587.3	549.1	538.4	538.4	532.1	555.4	915.1	16080.3	36444.6	38981.4
77.5°	525.6	542.6	480.9	446.9	438.4	419.2	453.3	559.8	7033.6	17110.3	16755.0
80°	434.2	457.6	395.9	355.4	340.5	319.2	357.5	391.5	2091.9	3973.3	3805.1
82.5°	323.5	334.2	281.0	253.3	240.5	225.6	268.1	272.4	681.0	1406.7	1589.8
85°	206.4	210.6	172.4	148.9	142.6	136.2	170.3	148.9	259.6	1034.3	1502.4
87.5°	72.4	83.0	66.0	59.6	63.9	53.2	78.7	44.7	72.4	730.0	904.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)